

# PATENT COOPERATION TREATY

PCT/KR2005/001544

## PCT

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>05FLWW071</b>	<b>FOR FURTHER ACTION</b> <span style="float: right;">see Form PCT/ISA/220 as well as, where applicable, item 5 below.</span>	
International application No. <b>PCT/KR2005/001544</b>	International filing date (day/month/year) <b>25 MAY 2005 (25.05.2005)</b>	(Earliest) Priority Date (day/month/year) <b>24 JUNE 2004 (24.06.2004)</b>
Applicant <b>LG ELECTRONICS, INC. et al</b>		

This International search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

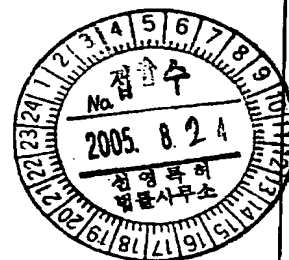
2. ☐ **Certain claims were found unsearchable** (See Box No. II)

3. ☐ **Unity of invention is lacking** (See Box No. III)

**4. With regard to the title,**

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:



**5. With regard to the abstract,**

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

**6. With regard to the drawings,**

a. the figure of the **drawings** to be published with the abstract is Figure No. 4

☐ as suggested by the applicant.

☒ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

b. ☐ none of the figure is to be published with the abstract.

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/KR2005/001544

## A. CLASSIFICATION OF SUBJECT MATTER

**IPC7 A47L 15/42**

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 B08B, D06F 37/02, 37/30, 37/40, 39/00, F04

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
Korean Patents and applications for inventions since 1975  
Utility models and applications for Utility Models since 1975  
Japanese Utility Models and applications for Utility Models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
eKIPASS

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 3963046A (Richard P.Bergeson) 15 June 1976 see the whole document	1-13
Y	KR 10-2004-46974 A (LG ELECTRONICS CO.) 5 June 2004 see abstract; figure2, page3, line 4-7	1-13
A	KR 10-0249373 B1 (LG ELECTRONICS CO.) 23 December 1999 see abstract; figure4; page3, line55-58	1-13
A	KR 20-1999-006796 U (LG ELECTRONICS CO.) 25 February 1999 see figure 3; page 2, line17-29	1,8
A	JP 2002005019 (SANYO ELECTRIC CO LTD) 9 January 2002 see abstract	1,8

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	


Date of the actual completion of the international search

18 AUGUST 2005 (18.08.2005)

Date of mailing of the international search report

**18 AUGUST 2005 (18.08.2005)**

Name and mailing address of the ISA/KR

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**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No.

PCT/KR2005/001544

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US3963046A	15.06.1976	CA1037828A1 US3906967A	05.09.1978 23.09.1975
KR 10-2004-46974A	5.06.2004	US2004148979A1	05.08.2004
KR 10-0249373 B1	23.12.1999	None	
KR 20-1999-006796U	25.02.1999	None	
JP 2002005019	09.01.2002	None	